VSW 2VGA A

Two Input VGA and Stereo Audio Switcher

FEATURES

- **Inputs: Video on female 15-pin HD connectors; audio on 3.5 mm stereo mini jacks**
- **Outputs: Video on female 15-pin HD connectors; audio on 3.5 mm stereo mini jacks**
- **Compatible with VGA-QXGA and HDTV component video signals**
- **300 MHz (-3 dB) RGB video bandwidth**
- **Autoswitching capabilities**
- **Buffered loop through for input one**
- **Front panel toggle switch for input selection**
- **Multiple switchers can be daisy-chained together to create a multiuser presentation system**
- **Contact closure remote control**
- **Through-desk, under-desk, and projector-mountable**
- **Optional VSW I AAP remote input and control panel available**, part # 70-529-x1
- **External universal power supply included**, part # 70-055-01

DESCRIPTION

The Extron **VSW 2VGA A** is a compact and economical two input, one output, active switcher for VGA and stereo audio. It allows users to select between two VGA sources with audio and route the selected source to a video output device such as a data monitor or projector. In addition, the VSW 2VGA A provides a buffered local monitor output for input one. Multiple VSW 2VGA A switchers can be daisy-chained using Extron high performance pre-fabricated VGA cable to create a multi-user presentation system.

The VSW 2VGA A is capable of switching a variety of analog video signals, including RGBHV, RGBS, RGsB, and RGBHVS, as well as VGA–QXGA, Macintosh®, and other high resolution computer video signals. In autoswitch mode, input sources are selected automatically when the switcher detects an active sync signal, making the VSW 2VGA A ideal for automatic routing and unattended operation.

The high performance VSW 2VGA A can be controlled via its front panel toggle switch or contact closure. Housed in a quarter rack width metal enclosure with flexible mounting options, the VSW 2VGA A is well suited for conference rooms, classrooms, multimedia production systems, and other high resolution, computer video environments.

SPECIFICATIONS

VIDEO

Gain	Unity
Bandwidth	300 MHz (-3 dB)

VIDEO INPUT AND LOOP-THROUGH

Number / Signal type	2 VGA-UXGA RGBHV, RGBS, RGsB*, RsGsBs*, component video and HDTV component video input 1 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs, component video and HDTV component video local monitor loop-through

NOTE: *RGsB, RsGsBs, and HDTV component video inputs and outputs work in manual mode only. Autoswitching requires TTL level sync on pin 13 of the 15-pin HD connector.

Connectors	(3) 15-pin HD female
Nominal level	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum / Maximum levels	Analog: 0.4 V to 1.8 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	15 kHz to 145 kHz
Vertical frequency	30 Hz to 170 Hz

VIDEO OUTPUT

Number / Signal type	1 VGA-UXGA RGBHV, RGBS, RGsB*, RsGsBs*, component video and HDTV component video (follows input type)
Connectors	(1) 15-pin HD female
Nominal level	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum / Maximum levels	0.4 V to 1.8 Vp-p (follows input)
Impedance	75 ohms

NOTE: ID bits are passed through from VGA inputs to the VGA output.

SYNC

Input type	RGBHV, RGBS, RGsB*, RsGsBs*, bi-level & tri-level (HDTV) component video sync
Output type	RGBHV, RGBS, RGsB*, RsGsBs*, bi-level & tri-level (HDTV) component video sync (follows input)
Input level	1.8 V to 5.0 Vp-p
Output level	TTL: 5.0 V p-p, unterminated
Input impedance	510 ohms
Output impedance	50 ohms
Max. Rise / Fall time	40 ns
Polarity	Positive or negative (follows input)

AUDIO

Gain	Unbalanced output: 0 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.002% @ 1 kHz at nominal level (-10 dBV)
S/N	94 dB at maximum output (unweighted)
Crosstalk	-50 dB @ 20 kHz, -75 dB @ 1 kHz and below 60 Hz
Stereo channel separation	96 dB @ 1 kHz

AUDIO INPUT

Number / Signal type	2 stereo, unbalanced on (2) 3.5 mm mini audio jacks
Impedance	22k ohms unbalanced, AC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+9 dBV, (unbalanced) at 1% THD+N

AUDIO OUTPUT

Number / Signal type	1 stereo, unbalanced on (1) 3.5 mm mini audio jack
Impedance	50 ohms unbalanced
Maximum level (Hi-Z)	>+9 dBV, unbalanced at 1% THD+N
Maximum level (600 ohm)	>+7 dBV, unbalanced at 1% THD+N

CONTROL / REMOTE – SWITCHER

Contact closure	(1) 3.5 mm captive screw connector, 3 pole for momentary contact
Contact closure pin configurations	1 = input 1 select, 2 = input 2 select, 3 = GND

Shorting all three pins together enables autoswitch mode.

Loop signal	Momentary low, 250 µs

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, universal; to 12 VDC, 1 A (max.), regulated
Power input requirements	12 VDC, 0.1 A
Rack mount	Rack mountable with optional rack shelf, part #60-604-20 (RSB 123) Furniture mountable with optional under desk mounting kit, part #70-077-01 (MBU 125)
Enclosure type	Metal
Enclosure dimensions	1.0" H x 4.3" W x 3.0" D (quarter rack wide) 2.5 cm H x 10.9 cm W x 7.6 cm D (Depth excludes connectors.)
Product / Shipping weight	0.5 lbs (0.3 kg) / 3 lbs (2 kg)

MODEL	VERSION DESCRIPTION	PART #
VSW 2VGA A	Two Input VGA and Audio	60-758-01

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
VSW I AAP	Remote Input and Control Panel AAP - Architectural Adapter Plate for VSW 2VGA A Switcher and SW VGA rs / VGA Ars Series Switchers	page 277	70-529-11
MBU 125	1U, 1/2 & 1/4 Rack Width, Under-Desk Mount Kit for Two-Piece Enclosure	page 815	70-077-01
VGA-A M-M MD/6	15-pin HD Male to Male Molded - 6' (1.8 m)	page 768	26-490-02

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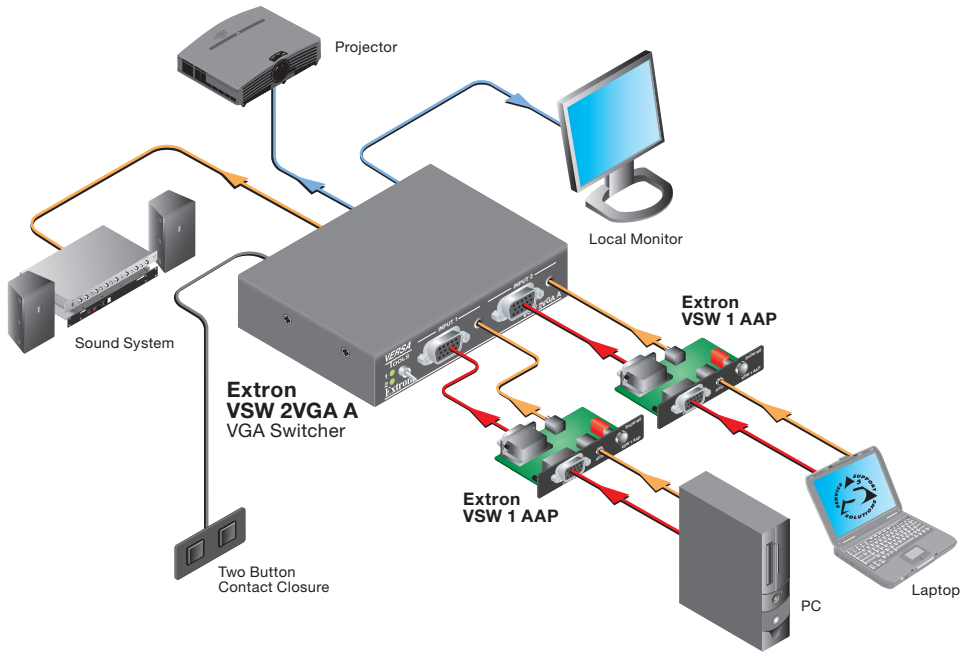
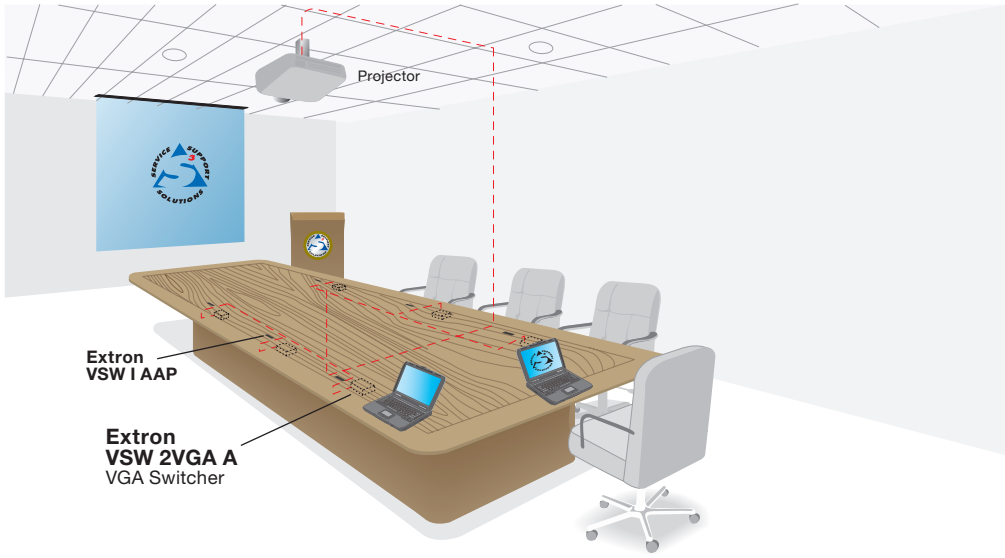
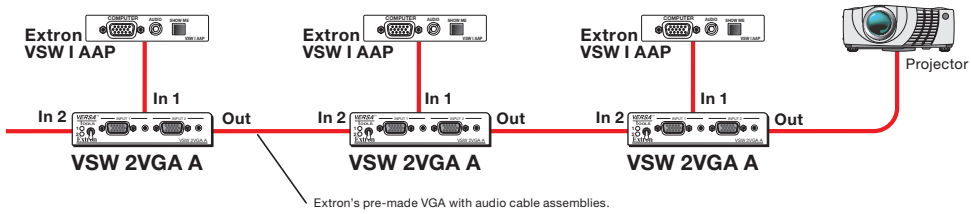
VSW 2VGA A





Expandable, economical presentation chain for
Conference rooms and library study rooms.



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